

WHAT IS CLAIMED IS:

1. A process for producing an optical information recording medium transparent sheet, comprising:

applying a radiation-curable resin coating solution continuously to one surface of a cover film wound in a roll form, followed by continuously irradiating the coat formed in order to cure the coat and thereby form a hard coat layer;

forming an adhesive layer continuously onto another surface of the cover film; and

winding back into a roll form the cover film on which the hard coat layer and the adhesive layer have been formed.

2. The process according to claim 1, wherein the winding back into a roll form the cover film on which the hard coat layer has been formed is performed between applying a radiation-curable resin coating solution to thereby form the hard coat layer on the one surface of the rolled cover film, and forming the adhesive layer continuously onto the another surface of the cover film.

3. A process for producing an optical information recording medium transparent sheet, comprising:

applying a radiation-curable resin coating solution continuously to one surface of a cover film wound in a roll form, followed by continuously irradiating the coat formed in order to cure the coat and thereby form a hard coat layer;

forming an adhesive layer continuously onto another surface of the cover film; and

punching out into a disc form the cover film on which the hard coat layer and the adhesive layer have been formed.

4. The process according to claim 3, wherein the winding back into a roll form the cover film on which the hard coat layer has been formed is performed between applying a radiation-curable resin coating solution to thereby form the hard coat layer on the one surface of the rolled cover film, and forming the adhesive layer continuously onto the another surface of the cover film.

5. The process according to claim 3, wherein the winding back into a roll form the cover film on which the hard coat layer and the adhesive layer have been formed is performed between applying a radiation-curable resin coating solution to thereby form the adhesive layer continuously onto another surface of the cover film, and punching out into a disc form the cover film on which the hard coat layer and the adhesive layer have been formed.

6. An optical information recording medium transparent sheet produced by a process comprising:

applying a radiation-curable resin coating solution continuously to one surface of a cover film wound in a roll form, followed by continuously irradiating the coat formed in order to cure the coat and thereby form a

hard coat layer;

forming an adhesive layer continuously onto another surface of the cover film; and

winding back into a roll form the cover film on which the hard coat layer and the adhesive layer have been formed.

7. The optical information recording medium transparent sheet according to claim 6, wherein the cover film comprises polycarbonate or cellulose triacetate.

8. The optical information recording medium transparent sheet according to claim 6, comprising on a surface of the adhesive layer a releasing film selected from the group consisting of a polyethylene film, a polyethylene terephthalate film, a polyethylene naphthalate film, a polycarbonate film and a cellulose triacetate film.

9. An optical information recording medium transparent sheet produced by a process comprising:

applying a radiation-curable resin coating solution continuously to one surface of a cover film wound in a roll form, followed by continuously irradiating the coat formed in order to cure the coat and thereby form a hard coat layer;

forming an adhesive layer continuously onto another surface of the cover film; and

punching out into a disc form the cover film on which the hard coat

layer and the adhesive layer have been formed.

10. The optical information recording medium transparent sheet according to claim 9, wherein the cover film comprises polycarbonate or cellulose triacetate.

11. The optical information recording medium transparent sheet according to claim 9, comprising on a surface of the adhesive layer a releasing film selected from the group consisting of a polyethylene film, a polyethylene terephthalate film, a polyethylene naphthalate film, a polycarbonate film and a cellulose triacetate film.

12. An optical information recording medium comprising a substrate on which are disposed a recording layer and an optical information recording medium transparent sheet, in that order, the transparent sheet being produced by a process comprising: applying a radiation-curable resin coating solution continuously to one surface of a cover film wound in a roll form, followed by continuously irradiating the coat formed in order to cure the coat and thereby form a hard coat layer; forming an adhesive layer continuously onto another surface of the cover film; and winding back into a roll form the cover film on which the hard coat layer and the adhesive layer have been formed.

13. The optical information recording medium according to claim 12, wherein the substrate comprises polycarbonate or amorphous polyolefin.

14. The optical information recording medium according to claim 12, wherein the substrate comprises a pre-groove having a track pitch of 200 to 400 nm and a groove depth of 10 to 150 nm.

15. The optical information recording medium according to claim 12, wherein the recording layer comprises a dye selected from the group consisting of cyanine dyes, oxonol dyes, metal complex type dyes, azo dyes and phthalocyanine dyes.

16. The optical information recording medium according to claim 15, wherein the recording layer further comprises a singlet oxygen quencher.

17. An optical information recording medium comprising a substrate on which are disposed a recording layer and the optical information recording medium transparent sheet, in that order, the transparent sheet being produced by a process comprising: applying a radiation-curable resin coating solution continuously to one surface of a cover film wound in a roll form, followed by continuously irradiating the coat formed in order to cure the coat and thereby form a hard coat layer; forming an adhesive layer continuously onto another surface of the cover film; and punching out into a disc form the cover film on which the hard coat layer and the adhesive layer have been formed.

18. The optical information recording medium according to claim 17,

wherein the substrate comprises polycarbonate or amorphous polyolefin.

19. The optical information recording medium according to claim 18, wherein the substrate comprises a pre-groove having a track pitch of 200 to 400 nm and a groove depth of 10 to 150 nm.

20. The optical information recording medium according to claim 19, wherein the recording layer comprises a dye selected from the group consisting of cyanine dyes, oxonol dyes, metal complex type dyes, azo dyes and phthalocyanine dyes.